



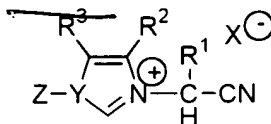
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APPENDIX A2: PENDING CLAIMS (CLEAN COPY)

1. (Amended)

A compound of the formula:

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wherein :

Y is N;

Z is an alkyl group of 1 to 7 carbon atoms, vinyl, allyl, arylcarbonyl, amino or alkoxy carbonylalkyl, or Z is according to the formula $-\text{CH}(\text{R}^4)(\text{CN})$, or Z is $-\text{CH}_2\text{C}(=\text{O})\text{R}^5$, where R^5 is (a) a C_6 - C_{10} aryl group, said aryl group optionally substituted by one or more alkyl, alkoxy, halo, dialkylamino, hydroxy, nitro or C_1 - C_2 alkylenedioxy groups or (b) heterocyclic group containing 4-10 ring members and 1-3 heteroatoms selected from the group consisting of oxygen, nitrogen and sulfur wherein the heterocyclic group is optionally substituted by one or more substituents selected from the group consisting of alkyl, oxo, alkoxy carbonylalkyl, aryl, and aralkyl group, and the one or more substituents are optionally substituted by one or more alkyl or alkoxy groups,

R^1 and R^4 are independently hydrogen, alkyl or phenyl optionally substituted with one or more halogen, alkyl, di(lower alkyl)amino or alkoxy groups; and

R^2 and R^3 are:

- independently selected from hydrogen, acylamino, acyloxyalkyl, alkanoyl, alkanoylalkyl, alkenyl, alkoxy, alkoxy carbonyl, alkoxy carbonylalkyl, alkyl, alkylamino, $(\text{C}_1$ - $\text{C}_3)$ alkylenedioxy, allyl, amino, ω -alkylenesulfonic acid, carbamoyl, carboxy, carboxyalkyl, cycloalkyl, dialkylamino, halo, hydroxy, $(\text{C}_2$ - $\text{C}_6)$ hydroxyalkyl, mercapto, nitro, sulfamoyl, sulfonic acid, alkylsulfonyl, alkylsulfinyl, alkylthio, trifluoromethyl, azetidin-1-yl, morpholin-4-yl, thiomorpholin-

APPENDIX A2: PENDING CLAIMS (CLEAN COPY) – (continued)

4-yl, piperidin-1-yl, 4-[C₆ or C₁₀]arylpiperidin-1-yl, 4-[C₆ or C₁₀]arylpiperazin-1-yl, Ar {wherein, consistent with the rules of aromaticity, Ar is C₆ or C₁₀ aryl or a 5- or 6-membered heteroaryl ring, wherein 6-membered heteroaryl ring contains one to three atoms of N, and the 5-membered heteroaryl ring contains from one to three atoms of N or one atom of O or S and zero to two atoms of N, each heteroaryl ring is optionally fused to a benzene, pyridine, pyrimidine, pyridazine, pyrazine, or (1,2,3)triazine (wherein the ring fusion is at a carbon-carbon double bond of Ar)}, Ar-alkyl, Ar-O, ArSO₂-, ArSO-, ArS-, ArSO₂NH-, ArNH, (N-Ar)(N-alkyl)N-, ArC(O)-, ArC(O)NH-, ArNH-C(O)-, and (N-Ar)(N-alkyl)N-C(O)-, or together R₁ and R₂ comprise methylenedioxy; or

2. together with their ring carbons form a C₆- or C₁₀- aromatic fused ring system; or
3. together with their ring carbons form a C₅-C₇ fused cycloalkyl ring having up to two double bonds including the fused double bond of the -olium or -onium containing ring, which cycloalkyl ring is optionally substituted by one or more of the group consisting of alkyl, alkoxycarbonyl, amino, aminocarbonyl, carboxy, fluoro, or oxo substituents; or
4. together with their ring carbons form a 5- or 6-membered heteroaryl ring, wherein the 6-membered heteroaryl ring contains one to three atoms of N, and the 5-membered heteroaryl ring contains from one to three atoms of N or one atom of O or S and zero to two atoms of N, each heteroaryl ring is optionally substituted with one or more 1-pyrrolidinyl-, 4-[C₆ or C₁₀]arylpiperazin-1-yl, 4-[C₆ or C₁₀]arylpiperidin-1-yl, azetidin-1-yl, morpholin-4-yl, thiomorpholin-4-yl, piperidin-1-yl, halo or (C₁-C₃)alkylenedioxy groups; or

APPENDIX A2: PENDING CLAIMS (CLEAN COPY) – (continued)

5. together with their ring carbons form a five to eight membered heterocycle, wherein the heterocycle consists of ring atoms selected from the group consisting of carbon, nitrogen, and $S(O)_n$, where $n=0, 1$, or 2 ; and

X^- is a biologically or pharmaceutically acceptable anion,

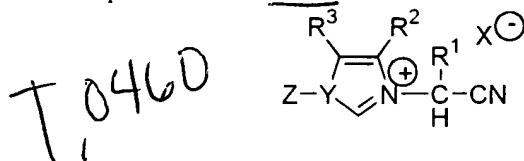
wherein aryl or Ar is optionally substituted with, in addition to any substitutions specifically noted, one or more substituents selected from the group consisting of acylamino, acyloxyalkyl, alkanoyl, alkanoylalkyl, alkenyl, alkoxy, alkoxycarbonyl, alkoxycarbonylalkyl, alkyl, alkylamino, (C_1-C_3) alkylenedioxy, alkylsulfonyl, alkylsulfinyl, ω -alkylenesulfonic acid, alkylthio, allyl, amino, $ArC(O)-$, $ArC(O)NH-$, $ArO-$, Ar-, Ar-alkyl-, carboxy, carboxyalkyl, cycloalkyl, dialkylamino, halo, trifluoromethyl, hydroxy, (C_2-C_6) hydroxyalkyl, mercapto, nitro, sulfamoyl, sulfonic acid, 1-pyrrolidinyl, 4- $[C_6 \text{ or } C_{10}]$ aryl piperazin-1-yl-, 4- $[C_6 \text{ or } C_{10}]$ aryl piperidin-1-yl, azetidin-1-yl, morpholin-4-yl, thiomorpholin-4-yl, and piperidin-1-yl; and

wherein heterocycles, except those of Ar, are optionally substituted with, in addition to any substitutions specifically noted, acylamino, alkanoyl, alkoxy, alkoxycarbonyl, alkoxycarbonylalkyl, alkyl, alkylamino, alkylsulfonyl, alkylsulfinyl, alkylthio, amino, $ArC(O)-$, $ArO-$, Ar-, carboxy, dialkylamino, fluoro, fluoroalkyl, difluoroalkyl, hydroxy, mercapto, sulfamoyl, or trifluoromethyl.

2. The compound of claim 1, wherein R^2 and R^3 are independently hydrogen, alkyl, or together form an alkylene bridge of 3-4 carbon atoms.
3. The compound of claim 1, wherein R^1 is hydrogen.
4. The compound of claim 1, wherein Z is an alkyl group of 1 to 7 carbon atoms.

APPENDIX A2: PENDING CLAIMS (CLEAN COPY) – (continued)

5. The compound of claim 3, wherein Z is C₁ to C₃ alkyl.
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6. (Amended) The compound of claim 4, wherein R¹ is hydrogen.
7. (Amended) The compound of claim 1, wherein Z is an alkyl group of 1 to 7 carbon atoms, arylcarbonyl, amino or alkoxy carbonylalkyl, or Z is according to the formula -CH(R⁴)(CN), or Z is -CH₂C(=O)R⁵, where R⁵ is a C₆-C₁₀ aryl group, said aryl group optionally substituted by one or more alkyl, alkoxy, halo, dialkylamino, hydroxy, nitro or C₁-C₂ alkylenedioxy groups.
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8. The compound of claim 1, wherein Z is an alkyl group of 1 to 7 carbon atoms, arylcarbonyl, amino or alkoxy carbonylalkyl, or Z is according to the formula -CH(R⁴)(CN).
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9. (Amended) A compound of the formula:



wherein :

Y is N;

Z is an alkyl group of 1 to 7 carbon atoms, arylcarbonyl, amino or (lower)alkoxy carbonyl(lower)alkyl, or Z is according to the formula -CH(R⁴)(CN), or Z is -CH₂C(=O)R⁵, where R⁵ is (a) a C₆-C₁₀ aryl group, said aryl group optionally substituted by one or more lower alkyl, lower alkoxy, halo, di(lower)alkylamino, hydroxy, nitro or C₁-C₂ alkylenedioxy groups or (b)

APPENDIX A2: PENDING CLAIMS (CLEAN COPY) – (continued)

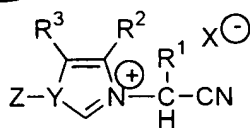
heterocyclic group containing 4-10 ring members and 1-3 heteroatoms selected from the group consisting of oxygen, nitrogen and sulfur wherein the heterocyclic group is optionally substituted by one or more substituents selected from the group consisting of alkyl, oxo, alkoxycarbonylalkyl, aryl, and aralkyl group, and the one or more substituents are optionally substituted by one or more alkyl or alkoxy groups,

R¹ and R⁴ are independently hydrogen, lower alkyl or phenyl optionally substituted with one or more halogen, lower alkyl, di(lower alkyl)amino or alkoxy groups;

R² and R³ are independently hydrogen, lower alkyl, or together form an alkylene bridge of 3-4 carbon atoms; and

X⁻ is a biologically or pharmaceutically acceptable anion.

10. (Amended) A method of, in an animal, (i) improving the elasticity or reducing wrinkles of a skin, treating (ii) diabetes or treating, inhibiting the (iii) discoloration of teeth, or ameliorating one or more of the following conditions: (iv) adverse sequelae of diabetes, (v) kidney damage, (vi) damage to blood vasculature, (vii) hypertension, (viii) retinopathy, (ix) damage to lens proteins, (x) cataracts, (xi) peripheral neuropathy, (xii) osteoarthritis, or (xiii) damage to cardiovascular tissue due to heart failure, (xiv) improving myocardial elasticity, (xv) preventing damage to tissues in the intraperitoneal cavity caused by contact with elevated levels of reducing sugars, or (xvi) treating or ameliorating one of the conditions described above, the method comprising administering an effective amount of one or more compounds of the formula:



APPENDIX A2: PENDING CLAIMS (CLEAN COPY) – (continued)

wherein :

Y is N or S;

Z is absent when Y is S and, if present, Z is an alkyl group of 1 to 7 carbon atoms, vinyl, allyl, arylcarbonyl, amino or alkoxycarbonylalkyl, or Z is according to the formula $-\text{CH}(\text{R}^4)(\text{CN})$, or Z is $-\text{CH}_2\text{C}(=\text{O})\text{R}^5$, where R^5 is (a) a C_6 - C_{10} aryl group, said aryl group optionally substituted by one or more alkyl, alkoxy, halo, dialkylamino, hydroxy, nitro or C_1 - C_2 alkylenedioxy groups or (b) heterocyclic group containing 4-10 ring members and 1-3 heteroatoms selected from the group consisting of oxygen, nitrogen and sulfur wherein the heterocyclic group is optionally substituted by one or more substituents selected from the group consisting of alkyl, oxo, alkoxycarbonylalkyl, aryl, and aralkyl group, and the one or more substituents are optionally substituted by one or more alkyl or alkoxy groups,

R^1 and R^4 are independently hydrogen, alkyl or phenyl optionally substituted with one or more halogen, alkyl, di(lower alkyl)amino or alkoxy groups; and

R^2 and R^3 are:

1. independently selected from hydrogen, acylamino, acyloxyalkyl, alkanoyl, alkanoylalkyl, alkenyl, alkoxy, alkoxycarbonyl, alkoxycarbonylalkyl, alkyl, alkylamino, $(\text{C}_1$ - $\text{C}_3)$ alkylenedioxy, allyl, amino, ω -alkylenesulfonic acid, carbamoyl, carboxy, carboxyalkyl, cycloalkyl, dialkylamino, halo, hydroxy, $(\text{C}_2$ - $\text{C}_6)$ hydroxyalkyl, mercapto, nitro, sulfamoyl, sulfonic acid, alkylsulfonyl, alkylsulfinyl, alkylthio, trifluoromethyl, azetidin-1-yl, morpholin-4-yl, thiomorpholin-4-yl, piperidin-1-yl, 4- $[\text{C}_6$ or $\text{C}_{10}]$ arylpiperidin-1-yl, 4- $[\text{C}_6$ or $\text{C}_{10}]$ arylpiperazin-1-yl, Ar {wherein, consistent with the rules of aromaticity, Ar is C_6 or C_{10} aryl or a 5- or 6-membered heteroaryl ring, wherein 6-membered heteroaryl ring contains one to three

APPENDIX A2: PENDING CLAIMS (CLEAN COPY) – (continued)

atoms of N, and the 5-membered heteroaryl ring contains from one to three atoms of N or one atom of O or S and zero to two atoms of N, each heteroaryl ring is optionally fused to a benzene, pyridine, pyrimidine, pyridazine, pyrazine, or (1,2,3)triazine (wherein the ring fusion is at a carbon-carbon double bond of Ar)}, Ar-alkyl, Ar-O, ArSO₂-, ArSO-, ArS-, ArSO₂NH-, ArNH, (N-Ar)(N-alkyl)N-, ArC(O)-, ArC(O)NH-, ArNH-C(O)-, and (N-Ar)(N-alkyl)N-C(O)-, or together R₁ and R₂ comprise methylenedioxy; or

- A3
cont
2. together with their ring carbons form a C₆- or C₁₀- aromatic fused ring system; or
 3. together with their ring carbons form a C₅-C₇ fused cycloalkyl ring having up to two double bonds including the fused double bond of the -olium or -onium containing ring, which cycloalkyl ring is optionally substituted by one or more of the group consisting of alkyl, alkoxycarbonyl, amino, aminocarbonyl, carboxy, fluoro, or oxo substituents; or
 4. together with their ring carbons form a 5- or 6-membered heteroaryl ring, wherein the 6-membered heteroaryl ring contains one to three atoms of N, and the 5-membered heteroaryl ring contains from one to three atoms of N or one atom of O or S and zero to two atoms of N, each heteroaryl ring is optionally substituted with one or more 1-pyrrolidinyl-, 4-[C₆ or C₁₀]arylpiperazin-1-yl, 4-[C₆ or C₁₀]arylpiperidin-1-yl, azetidin-1-yl, morpholin-4-yl, thiomorpholin-4-yl, piperidin-1-yl, halo or (C₁-C₃)alkylenedioxy groups; or
 5. together with their ring carbons form a five to eight membered heterocycle, wherein the heterocycle consists of ring atoms selected from the group consisting of carbon, nitrogen, and S(O)_n, where n=0,1, or 2; and
- X⁻ is a biologically or pharmaceutically acceptable anion,

APPENDIX A2: PENDING CLAIMS (CLEAN COPY) – (continued)

wherein aryl or Ar is optionally substituted with, in addition to any substitutions specifically noted, one or more substituents selected from the group consisting of acylamino, acyloxyalkyl, alkanoyl, alkanoylalkyl, alkenyl, alkoxy, alkoxycarbonyl, alkoxycarbonylalkyl, alkyl, alkylamino, (C₁-C₃)alkylenedioxy, alkylsulfonyl, alkylsulfinyl, ω-alkylenesulfonic acid, alkylthio, allyl, amino, ArC(O)-, ArC(O)NH-, ArO-, Ar-, Ar-alkyl-, carboxy, carboxyalkyl, cycloalkyl, dialkylamino, halo, trifluoromethyl, hydroxy, (C₂-C₆)hydroxyalkyl, mercapto, nitro, sulfamoyl, sulfonic acid, 1-pyrrolidinyl, 4-[C₆ or C₁₀]aryl piperazin-1-yl-, 4-[C₆ or C₁₀]aryl piperidin-1-yl, azetidin-1-yl, morpholin-4-yl, thiomorpholin-4-yl, and piperidin-1-yl; and

wherein heterocycles, except those of Ar, are optionally substituted with, in addition to any substitutions specifically noted, acylamino, alkanoyl, alkoxy, alkoxycarbonyl, alkoxycarbonylalkyl, alkyl, alkylamino, alkylsulfonyl, alkylsulfinyl, alkylthio, amino, ArC(O)-, ArO-, Ar-, carboxy, dialkylamino, fluoro, fluoroalkyl, difluoroalkyl, hydroxy, mercapto, sulfamoyl, or trifluoromethyl.

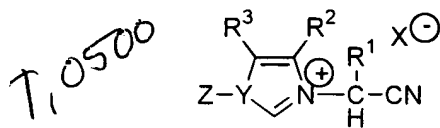
11. (Amended) The method of claim 10, comprising administering an effective amount of one or more of the compounds wherein R¹ is hydrogen.
12. (Amended) The method of claim 10, comprising administering an effective amount of one or more of the compounds wherein Z is an alkyl group of 1 to 7 carbon atoms.
13. (Amended) The method of claim 10, comprising administering an effective amount of one or more of the compounds wherein Z is C₁ to C₃ alkyl.

APPENDIX A2: PENDING CLAIMS (CLEAN COPY) – (continued)

14. (Amended) The method of claim 12, comprising administering an effective amount of one or more of the compounds wherein R^1 is hydrogen.
15. (Amended) The method of claim 10, comprising administering an effective amount of one or more of the compounds wherein Z is an alkyl group of 1 to 7 carbon atoms, arylcarbonyl, amino or alkoxy carbonylalkyl, or Z is according to the formula - $CH(R^4)(CN)$, or Z is $-CH_2C(=O)R^5$, where R^5 is a C_6-C_{10} aryl group, said aryl group optionally substituted by one or more alkyl, alkoxy, halo, dialkylamino, hydroxy, nitro or C_1-C_2 alkylenedioxy groups.
16. (Amended) The method of claim 15, wherein Z is an alkyl group of 1 to 7 carbon atoms, arylcarbonyl, amino or alkoxy carbonylalkyl, or Z is according to the formula - $CH(R^4)(CN)$.
17. (Amended) The method of claim 10, comprising administering an effective amount of the one or more compounds to improve myocardial elasticity or reduce any loss of myocardial elasticity in heart failure.
18. (Amended) A method of, in an animal, (i) improving the elasticity or reducing wrinkles of a skin, treating (ii) diabetes or treating, inhibiting the (iii) discoloration of teeth, or ameliorating one or more of the following conditions: (iv) adverse sequelae of diabetes, (v) kidney damage, (vi) damage to blood vasculature, (vii) hypertension, (viii) retinopathy, (ix) damage to lens proteins, (x) cataracts, (xi) peripheral neuropathy, (xii) osteoarthritis, or (xiii) damage to cardiovascular tissue due to heart failure, (xiv) improving myocardial elasticity, (xv) preventing damage to tissues in the intraperitoneal

APPENDIX A2: PENDING CLAIMS (CLEAN COPY) – (continued)

cavity caused by contact with elevated levels of reducing sugars, or (xvi) treating or ameliorating one of the conditions described above, the method comprising administering an effective amount of one or more compounds of the formula:



wherein:

Y is N or S;

Z is absent when Y is S and, if present, Z is an alkyl group of 1 to 7 carbon atoms,

arylcarbonyl, amino or (lower)alkoxycarbonyl(lower)alkyl, or Z is according to the formula $-\text{CH}(\text{R}^4)(\text{CN})$, or Z is $-\text{CH}_2\text{C}(=\text{O})\text{R}^5$, where R^5 is (a) a $\text{C}_6\text{-C}_{10}$ aryl group, said aryl group optionally substituted by one or more lower alkyl, lower alkoxy, halo, di(lower)alkylamino, hydroxy, nitro or $\text{C}_1\text{-C}_2$ alkylenedioxy groups or (b) heterocyclic group containing 4-10 ring members and 1-3 heteroatoms selected from the group consisting of oxygen, nitrogen and sulfur wherein the heterocyclic group is optionally substituted by one or more substituents selected from the group consisting of alkyl, oxo, alkoxycarbonylalkyl, aryl, and aralkyl group, and the one or more substituents is optionally substituted by one or more alkyl or alkoxy groups,

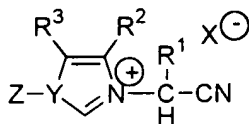
R^1 and R^4 are independently hydrogen, lower alkyl or phenyl optionally substituted with one or more halogen, lower alkyl, di(lower alkyl)amino or alkoxy groups;

R^2 and R^3 are independently hydrogen, lower alkyl, or together form an alkylene bridge of 3-4 carbon atoms; and

X^- is a biologically or pharmaceutically acceptable anion.

APPENDIX A2: PENDING CLAIMS (CLEAN COPY) – (continued)

19. (New) A pharmaceutical composition comprising a therapeutically effective amount of one or more active compounds and a pharmaceutically acceptable excipient, the active compounds of the formula:



wherein :

Y is N or S;

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Z is absent when Y is S and, if present, Z is an alkyl group of 1 to 7 carbon atoms, vinyl, allyl, arylcarbonyl, amino or alkoxycarbonylalkyl, or Z is according to the formula $-\text{CH}(\text{R}^4)(\text{CN})$, or Z is $-\text{CH}_2\text{C}(=\text{O})\text{R}^5$, where R^5 is (a) a $\text{C}_6\text{-C}_{10}$ aryl group, said aryl group optionally substituted by one or more alkyl, alkoxy, halo, dialkylamino, hydroxy, nitro or $\text{C}_1\text{-C}_2$ alkylenedioxy groups or (b) heterocyclic group containing 4-10 ring members and 1-3 heteroatoms selected from the group consisting of oxygen, nitrogen and sulfur wherein the heterocyclic group is optionally substituted by one or more substituents selected from the group consisting of alkyl, oxo, alkoxycarbonylalkyl, aryl, and aralkyl group, and the one or more substituents are optionally substituted by one or more alkyl or alkoxy groups,

R^1 and R^4 are independently hydrogen, alkyl or phenyl optionally substituted with one or more halogen, alkyl, di(lower alkyl)amino or alkoxy groups; and

R^2 and R^3 are:

1. independently selected from hydrogen, acylamino, acyloxyalkyl, alkanoyl, alkanoylalkyl, alkenyl, alkoxy, alkoxycarbonyl, alkoxycarbonylalkyl, alkyl, alkylamino, $(\text{C}_1\text{-C}_3)$ alkylenedioxy, allyl, amino, ω -alkylenesulfonic acid, carbamoyl,
- R

APPENDIX A2: PENDING CLAIMS (CLEAN COPY) – (continued)

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- carboxy, carboxyalkyl, cycloalkyl, dialkylamino, halo, hydroxy, (C₂-C₆)hydroxyalkyl, mercapto, nitro, sulfamoyl, sulfonic acid, alkylsulfonyl, alkylsulfinyl, alkylthio, trifluoromethyl, azetidin-1-yl, morpholin-4-yl, thiomorpholin-4-yl, piperidin-1-yl, 4-[C₆ or C₁₀]arylpiperidin-1-yl, 4-[C₆ or C₁₀]arylpiperazin-1-yl, Ar {wherein, consistent with the rules of aromaticity, Ar is C₆ or C₁₀ aryl or a 5- or 6-membered heteroaryl ring, wherein 6-membered heteroaryl ring contains one to three atoms of N, and the 5-membered heteroaryl ring contains from one to three atoms of N or one atom of O or S and zero to two atoms of N, each heteroaryl ring is optionally fused to a benzene, pyridine, pyrimidine, pyridazine, pyrazine, or (1,2,3)triazine (wherein the ring fusion is at a carbon-carbon double bond of Ar)}, Ar-alkyl, Ar-O, ArSO₂-, ArSO-, ArS-, ArSO₂NH-, ArNH, (N-Ar)(N-alkyl)N-, ArC(O)-, ArC(O)NH-, ArNH-C(O)-, and (N-Ar)(N-alkyl)N-C(O)-, or together R₁ and R₂ comprise methylenedioxy; or
2. together with their ring carbons form a C₆- or C₁₀- aromatic fused ring system; or
 3. together with their ring carbons form a C₅-C₇ fused cycloalkyl ring having up to two double bonds including the fused double bond of the -olium or -onium containing ring, which cycloalkyl ring is optionally substituted by one or more of the group consisting of alkyl, alkoxycarbonyl, amino, aminocarbonyl, carboxy, fluoro, or oxo substituents; or
 4. together with their ring carbons form a 5- or 6-membered heteroaryl ring, wherein the 6-membered heteroaryl ring contains one to three atoms of N, and the 5-membered heteroaryl ring contains from one to three atoms of N or one atom of O or S and zero to two atoms of N, each heteroaryl ring is optionally substituted with one or more 1-pyrrolidinyl-, 4-[C₆ or C₁₀]arylpiperazin-1-yl, 4-[C₆ or C₁₀]arylpiperidin-1-yl,
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APPENDIX A2: PENDING CLAIMS (CLEAN COPY) – (continued)

azetidin-1-yl, morpholin-4-yl, thiomorpholin-4-yl, piperidin-1-yl, halo or (C₁-C₃)alkylenedioxy groups; or

5. together with their ring carbons form a five to eight membered heterocycle, wherein the heterocycle consists of ring atoms selected from the group consisting of carbon, nitrogen, and S(O)_n, where n=0,1, or 2; and

X⁻ is a biologically or pharmaceutically acceptable anion,

wherein aryl or Ar is optionally substituted with, in addition to any substitutions specifically noted, one or more substituents selected from the group consisting of acylamino, acyloxyalkyl, alkanoyl, alkanoylalkyl, alkenyl, alkoxy, alkoxycarbonyl, alkoxycarbonylalkyl, alkyl, alkylamino, (C₁-C₃)alkylenedioxy, alkylsulfonyl, alkylsulfinyl, ω-alkylenesulfonic acid, alkylthio, allyl, amino, ArC(O)-, ArC(O)NH-, ArO-, Ar-, Ar-alkyl-, carboxy, carboxyalkyl, cycloalkyl, dialkylamino, halo, trifluoromethyl, hydroxy, (C₂-C₆)hydroxyalkyl, mercapto, nitro, sulfamoyl, sulfonic acid, 1-pyrrolidinyl, 4-[C₆ or C₁₀]aryl piperazin-1-yl-, 4-[C₆ or C₁₀]aryl piperidin-1-yl, azetidin-1-yl, morpholin-4-yl, thiomorpholin-4-yl, and piperidin-1-yl; and

wherein heterocycles, except those of Ar, are optionally substituted with, in addition to any substitutions specifically noted, acylamino, alkanoyl, alkoxy, alkoxycarbonyl, alkoxycarbonylalkyl, alkyl, alkylamino, alkylsulfonyl, alkylsulfinyl, alkylthio, amino, ArC(O)-, ArO-, Ar-, carboxy, dialkylamino, fluoro, fluoroalkyl, difluoroalkyl, hydroxy, mercapto, sulfamoyl, or trifluoromethyl.

20. (New) The pharmaceutical composition of claim 19, further comprising a pharmaceutically-acceptable carrier.

APPENDIX A2: PENDING CLAIMS (CLEAN COPY) – (continued)

21. (New) The pharmaceutical composition of claim 19, comprising a therapeutically effective amount of one or more of the compounds wherein R¹ is hydrogen.
22. (New) The pharmaceutical composition of claim 19, comprising a therapeutically effective amount of one or more compounds wherein Z is an alkyl group of 1 to 7 carbon atoms.
23. (New) The pharmaceutical composition of claim 19, comprising a therapeutically effective amount of one or more compounds wherein Z is C₁ to C₃ alkyl.